NAVSUP
NAVAL SUPPLY SYSTEMS COMMAND

FLSIC

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

SNT

www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

MATT MULLINS
CDR, USN
4-5 MAR 2004

Outline

- Background/Overview
- AIT Implementation/Requirements
- Warranty Data
  - Today's Guidance
  - What's Available
  - What's Planned
- Capitalizing on UID

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review – 1998

Challenge:

- **Lower Maintenance & Supply Cost**

- **Increase Readiness**

System Concept

Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

SNT System Goals

Major Benefits

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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Aviation Asset/Information Flow

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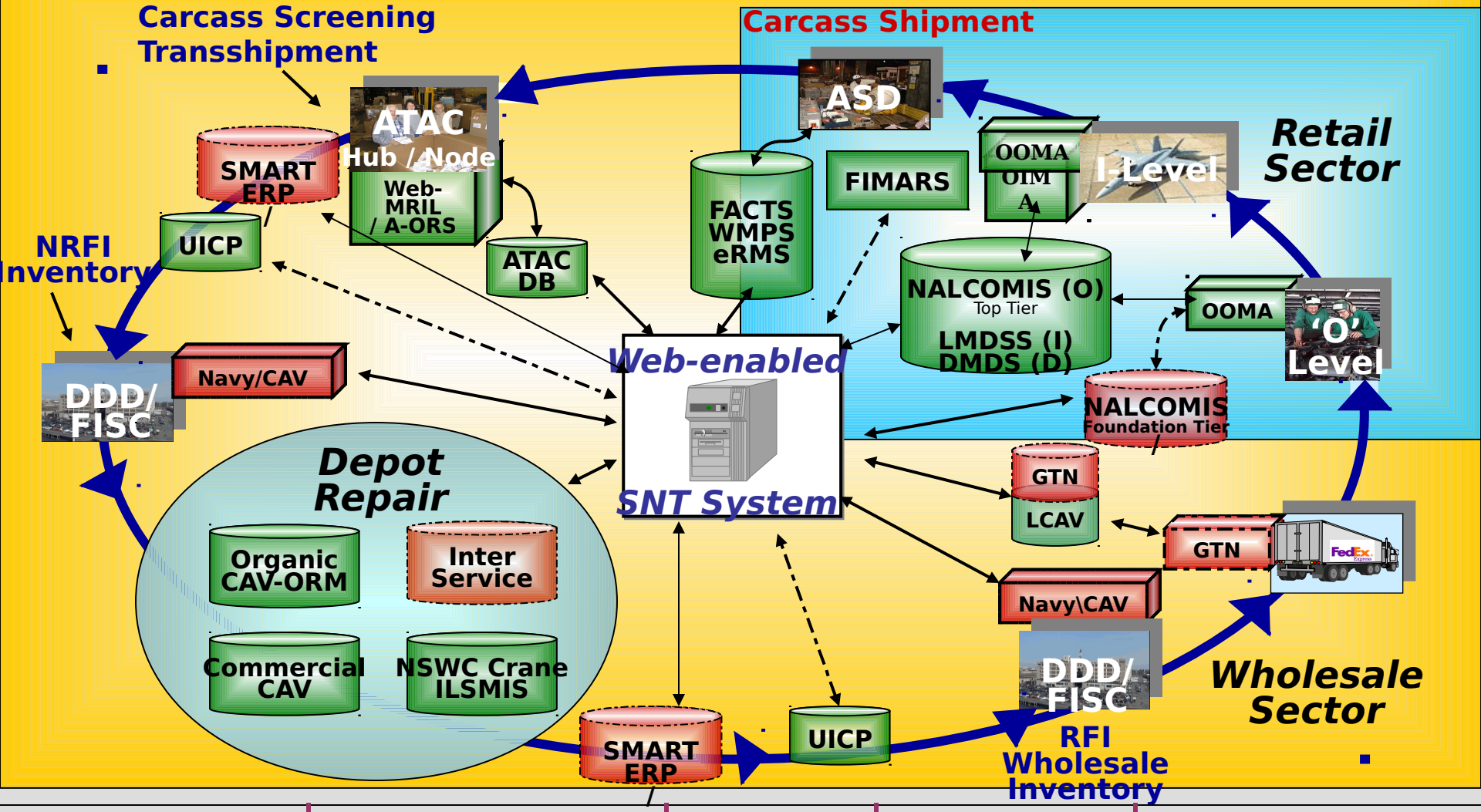
Information Systems

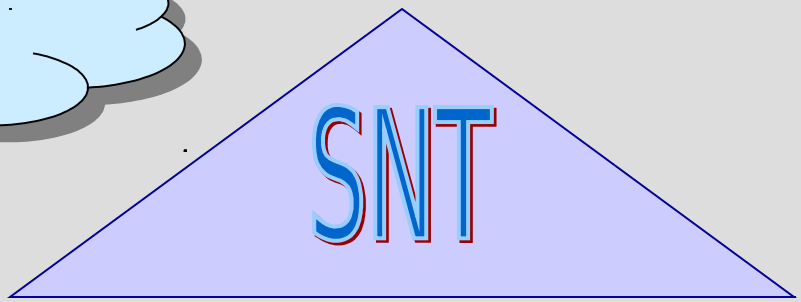
Overview



Connectivity | Not Connected | S/N | No S/N | Asset Flow

SNT Foundation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRIL/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- PDF417 2D
- ISO15418/15434
- MIL-STD-129
- MIL-STD-130
- MSL
- IRRD

SECOND

Automatic Identification Technology (AIT) is used by SNT to maintain data accuracy.

CMB

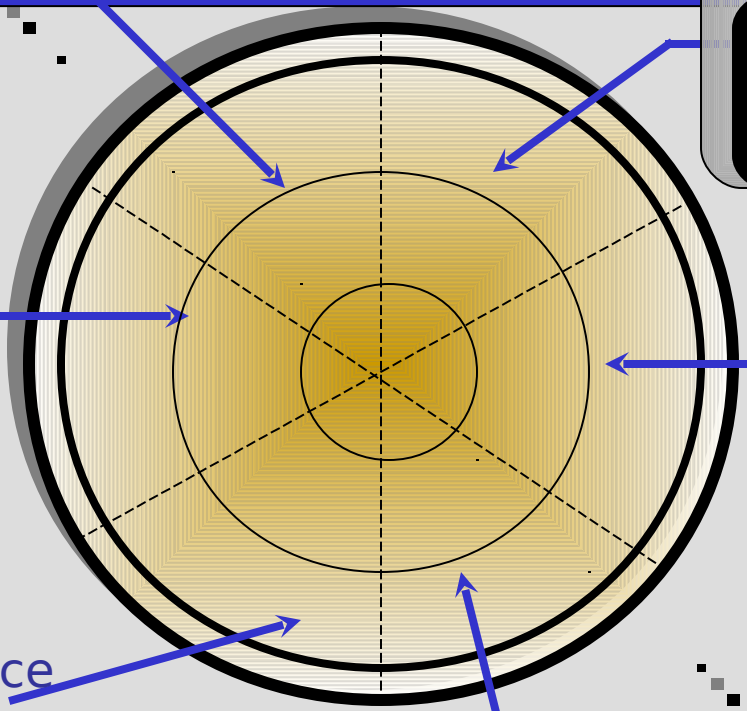
Contact Memory Button (CMB)

Scheduled Removal Component Card

Name Plate Data

Computer, Air Data CPU-175/A

P/N	50-100-01	SERNO	0152
MFR	K0656	CONTR	F33657-85C-0025



Maintenance History**

Warranty Data

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

**Use TBD within aviation maintenance

Available for Vendor Use

Available for Future Navy Use

Supply - Aviation 5 Year CMB Plan

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AIT -Aviation Rollout

T/M/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	$152,783.25	$272,412.00	$136,000.00	$605,932.55
CH-53E	164	170	34,850	$544,705.50	$817,236.00	$136,000.00	$1,597,820.10
CH-53D	44	104	5,720	$89,403.60	$272,412.00	$83,200.00	$486,995.50
[illegible]H-60	342	300	128,250	$2,004,547.50	$3,268,944.00	$240,000.00	$5,665,423.90
[illegible]3B	111	400	55,500	$867,465.00	$708,271.20	$320,000.00	$1,712,510.98
E6A/B	26	469	9,380	$146,609.40	$163,447.20	$375,200.00	[illegible]
[illegible]	394	196	47,530	$742,893.90	$898,959.60	$156,800.00	$1,757,972.50
[illegible]H/F-18	126	132	20,790	$324,947.70	$599,306.40	$105,600.00	[illegible]
[illegible]46E	280	70	20,125	$314,553.75	$926,200.80	$56,000.00	$1,383,946.57
CH/HH-46	79	70	6,913	$108,042.38	$435,859.20	$56,000.00	$609,546.56
EA-6B	124	144	22,320	$348,861.60	$1,035,165.60	$115,200.00	$1,659,147.94
MV/CV/HV-22	458	203	116,218	$1,816,479.53	$3,922,732.80	$162,400.00	$6,254,890.39
AV-8	172	921	198,015	$3,094,974.45	$871,718.40	$736,800.00	$4,899,087.53
F-14A/B/D	193	200	48,250	$754,147.50	$871,718.40	$160,000.00	$1,940,564.86
P-3's	264	75	24,750	$386,842.50	$1,797,919.20	$60,000.00	$2,452,987.68
Cargo	295	175	64,531	$1,008,623.44	$2,724,120.00	$140,000.00	$4,297,527.69
Trainers	515	129	83,044	$1,297,973.81	$817,236.00	$103,200.00	$2,399,150.46
E-2C	75	145	13,594	$212,470.31	$1,525,507.20	$116,000.00	$1,963,874.10
C-2A	38	145	6,888	$107,651.63	$217,929.60	$116,000.00	$441,500.85
F-18ABCD	745	200	186,250	$2,911,087.50	$4,794,451.20	$160,000.00	$8,327,383.34
F-18EF	548	240	164,400	$2,569,572.00	$2,179,296.00	$192,000.00	$5,205,021.20
Misc Support							$2,805,000.00
Total			1,267,091	$19,804,636.24	$29,120,842.80	$3,726,400.00	$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = $58,211,346

Package marking

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

MIL-STD-129 PDF417
2D
ISO 15418 / 15434

Product Marking

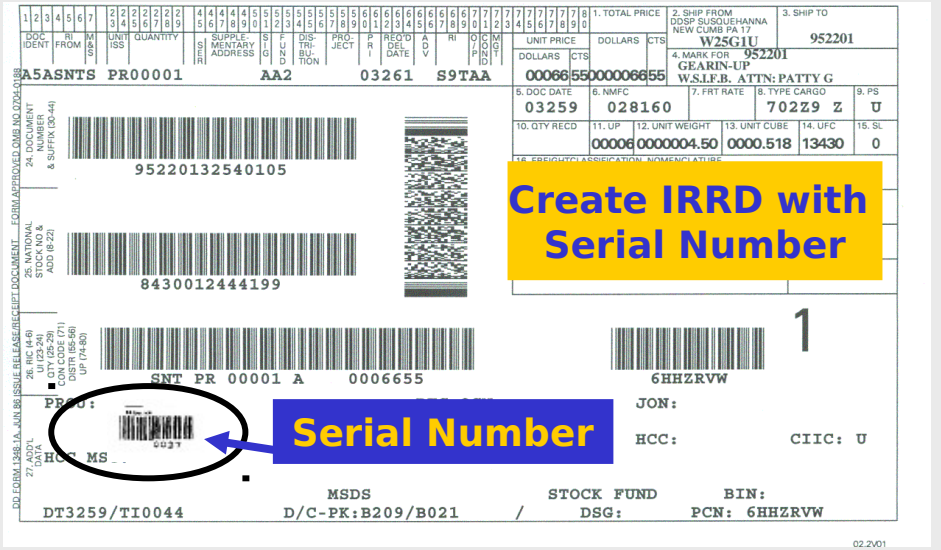
Nameplate Data

CMB

CAGE: 23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade

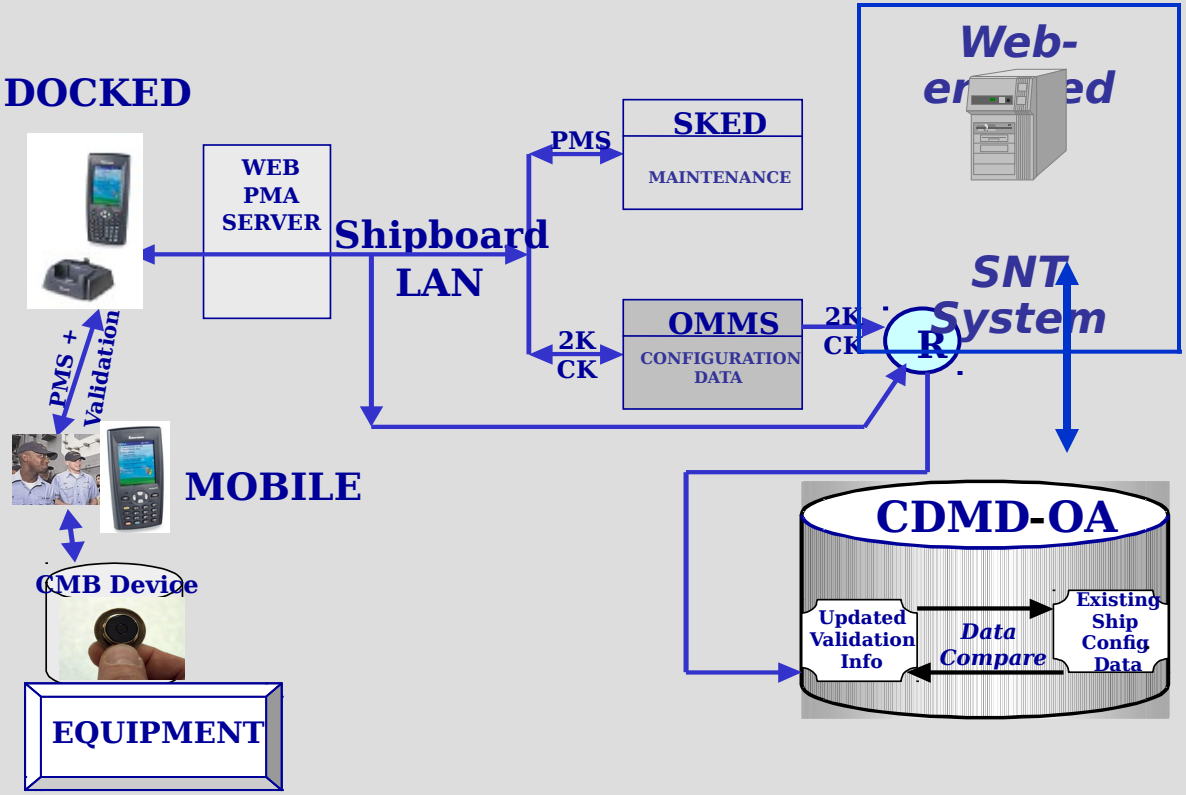
2D Data Matrix

Invoices

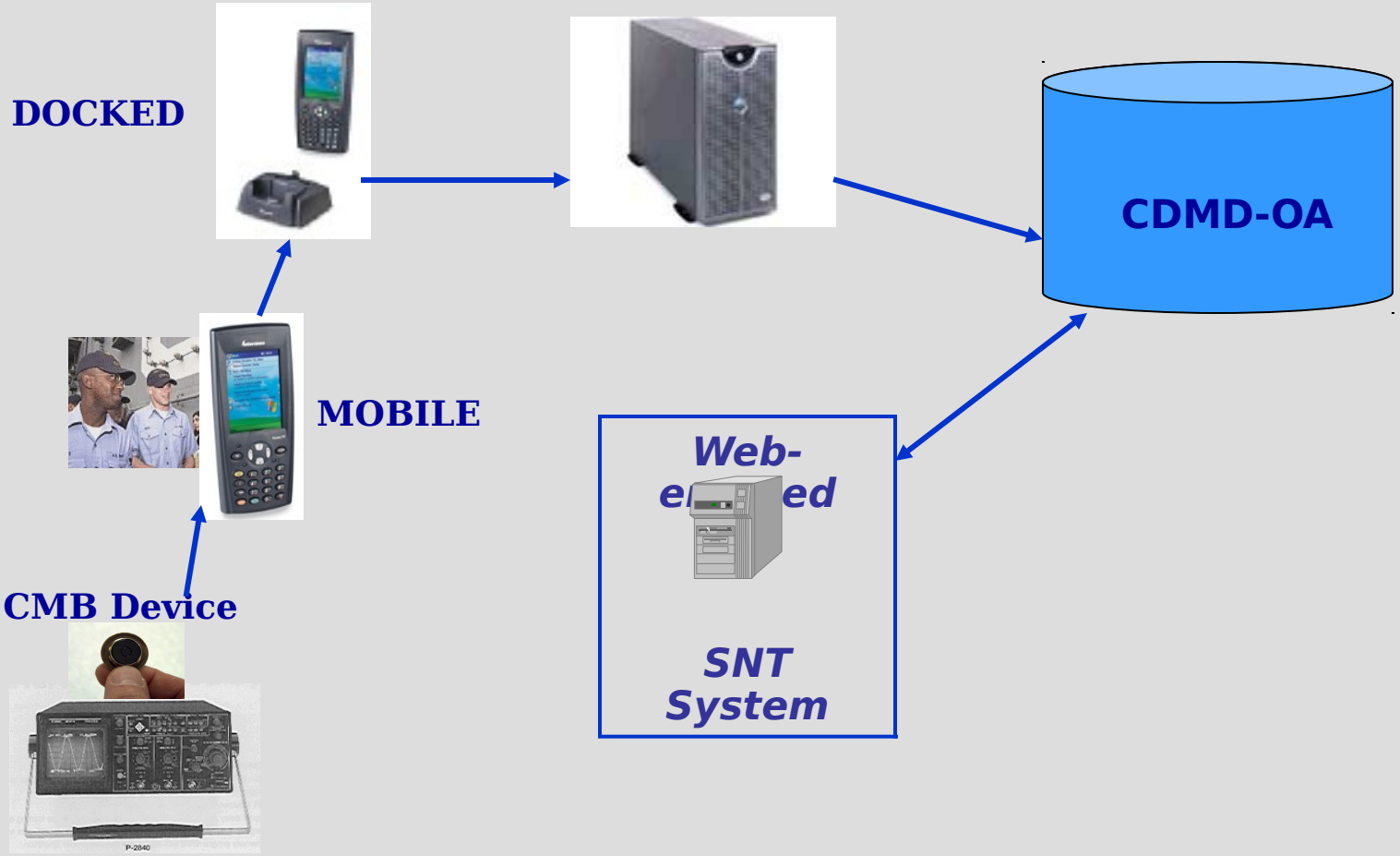


3/9 and 2D Barcode

Configuration Mgt Effort (Notional)

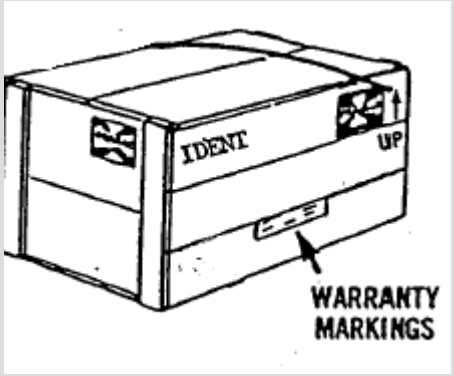


Calibration (Notional)



Warranty Markings

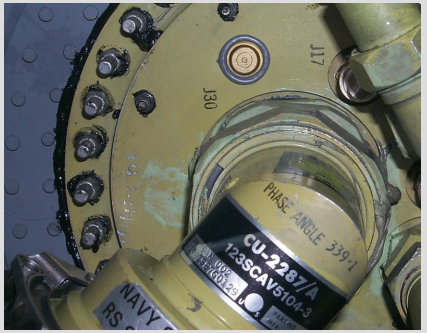
MIL-STD-129P CH2



WARRANTED ITEM
WARRANTY EXPIRES
AFTER 1000 HOURS
OF OPERATION

WARRANTED ITEM
WARRANTY EXPIRES
1 JANUARY 2003

MIL-STD 130L



WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL *(NOTE 1)*
NOTE 3

WARRANTED ITEM
THIS ITEM IS UNDER WARRANTY
UNTIL *(NOTE 2)*
HAS BEEN COMPLETED
NOTE 3

Note 1 – Indicates expiration Date
Note 2 – Indicates of use (Hours of Ops)
Note 3 - Examples provided as Guide (Not

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WEB-CAV Warranty Information

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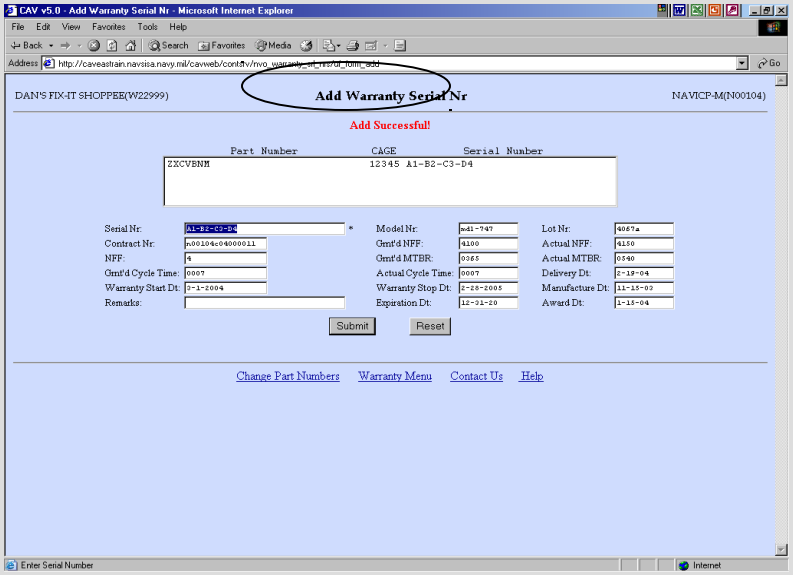
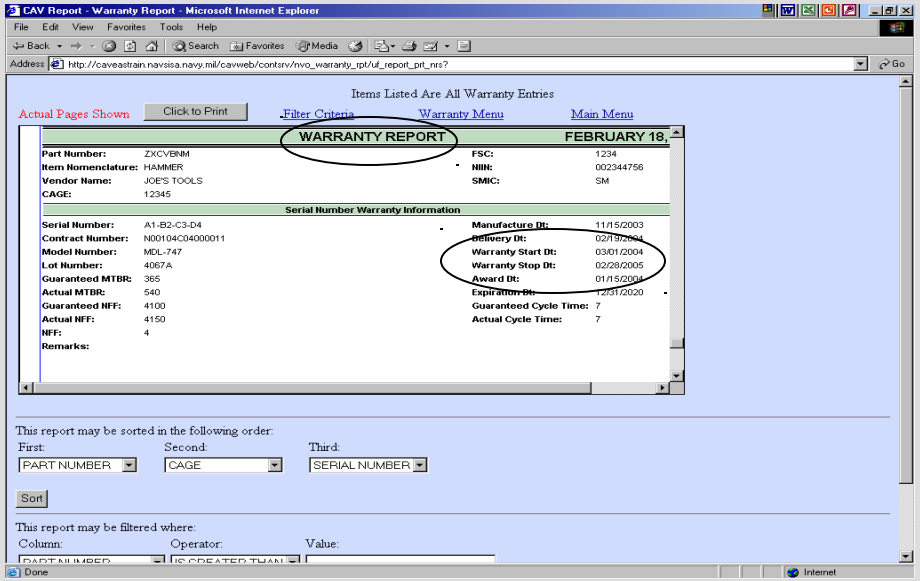
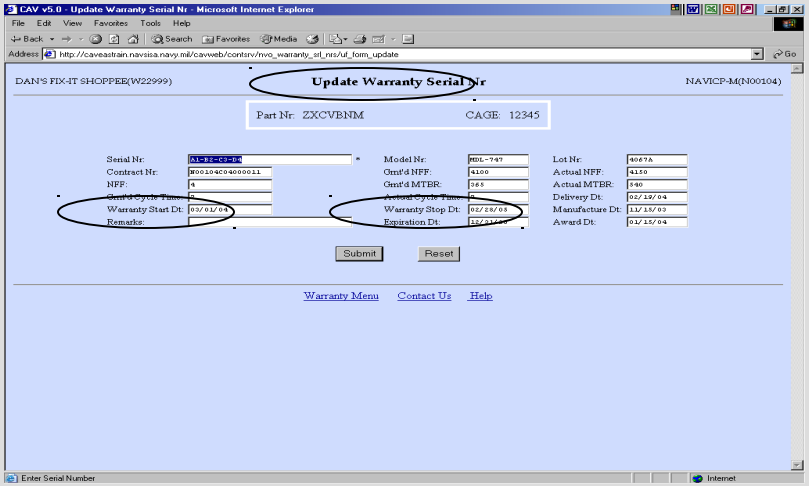
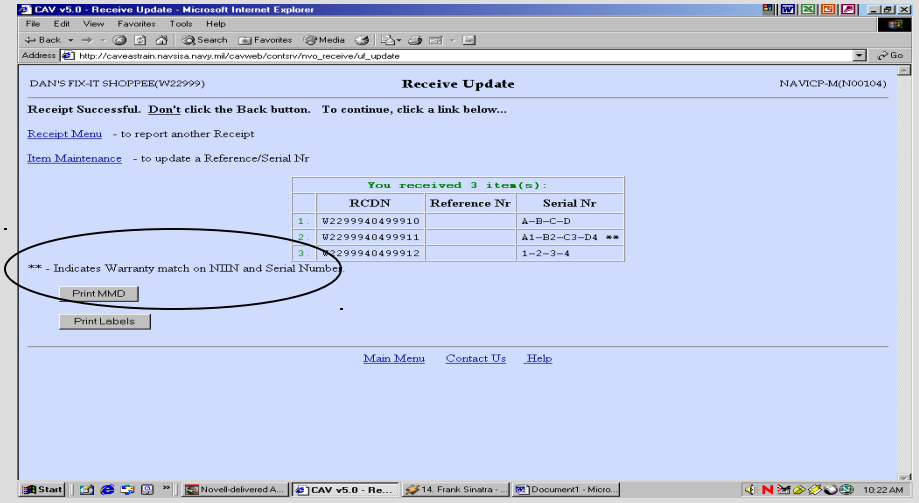
Warranty info








CAV v5.0 - Receive Update - Microsoft Internet Explorer
DAN'S FIX-IT SHOPPEE(W22999)
Receive Update
NAVICP-M(N00104)
Receipt Successful. Don't click the Back button. To continue, click a link below...
Receipt Menu - to report another Receipt
Item Maintenance - to update a Reference/Serial Nr
You received 3 item(s):
RCDN Reference Nr Serial Nr
1. W2299940499910 A-B-C-D
2. W2299940499911 A1-B2-C3-D4 **
3. W2299940499912 1-2-3-4
** - Indicates Warranty match on NIIN and Serial Number
Print MMD
Print Labels
Main Menu
Contact Us
Help

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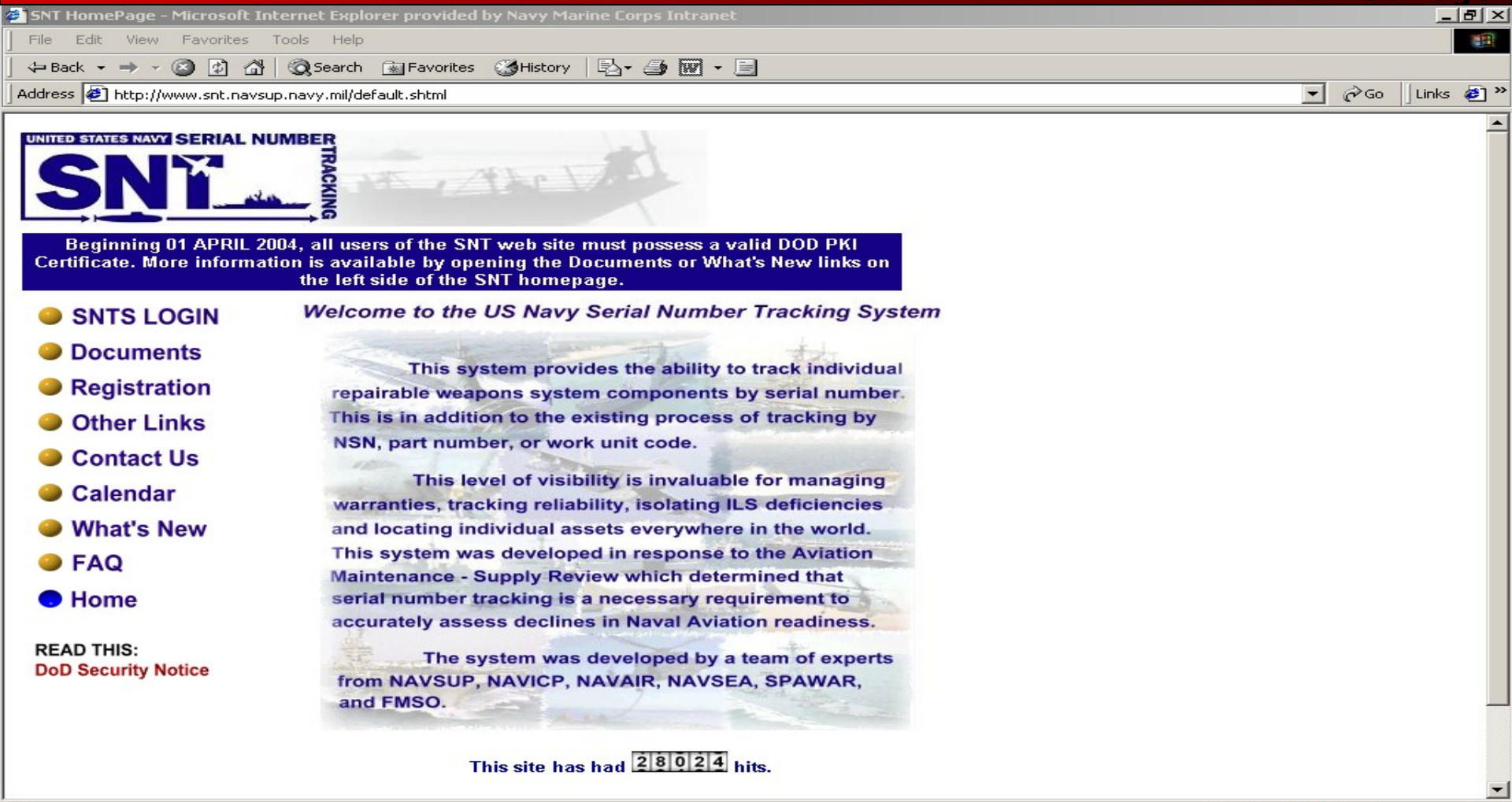
NAVAL SUPPLY SYSTEMS COMMAND

SNT Homepage

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Web Page


SNT HomePage - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://www.snt.navsup.navy.mil/default.shtml
Go Links
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Documents
Registration
Other Links
Contact Us
Calendar
What's New
FAQ
Home
READ THIS:
DoD Security Notice
Welcome to the US Navy Serial Number Tracking System
This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.
This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.
The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.
This site has had 28024 hits.
Internet
Start
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SNT Homel
13:30

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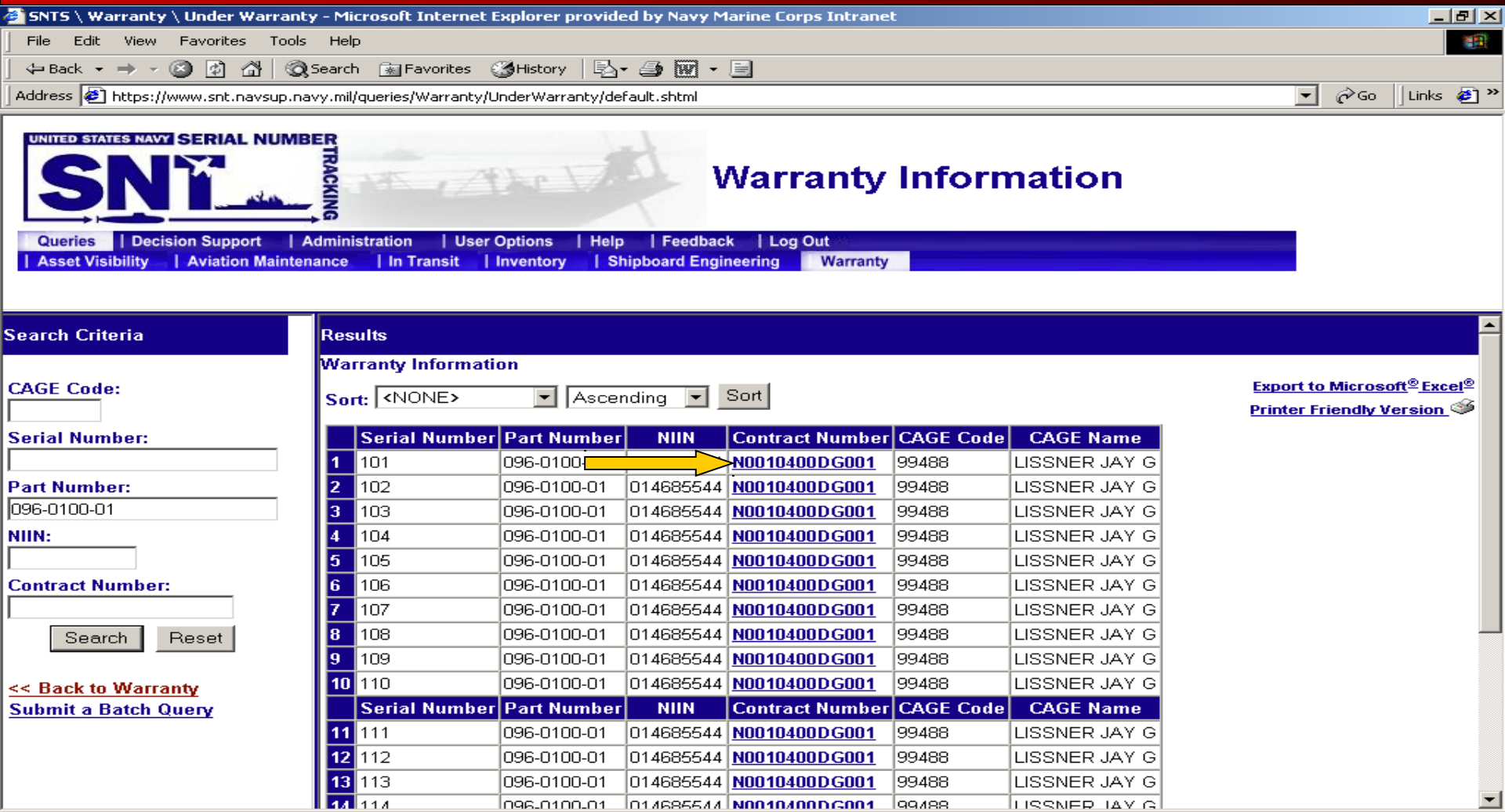
Warranty

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Warranty Info


SNTS \ Warranty \ Under Warranty - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/default.shtml
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Warranty Information
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty
Search Criteria
CAGE Code:
Serial Number:
Part Number:
096-0100-01
NIIN:
Contract Number:
Search Reset
<< Back to Warranty
Submit a Batch Query
Results
Warranty Information
Sort: <NONE> Ascending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Serial Number | Part Number | NIIN | Contract Number | CAGE Code | CAGE Name
1 101 096-0100 N0010400DG001 99488 LISSNER JAY G
2 102 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
3 103 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
4 104 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
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7 107 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
8 108 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
9 109 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
10 110 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
Serial Number | Part Number | NIIN | Contract Number | CAGE Code | CAGE Name
11 111 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
12 112 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
13 113 096-0100-01 014685544 N0010400DG001 99488 LISSNER JAY G
https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/results_contract_dd.shtml?drill_down=1&query_state=-12898947558
Internet
Start FLSIC FEB 2004 SNTS \ Warranty \ Un... 13:37

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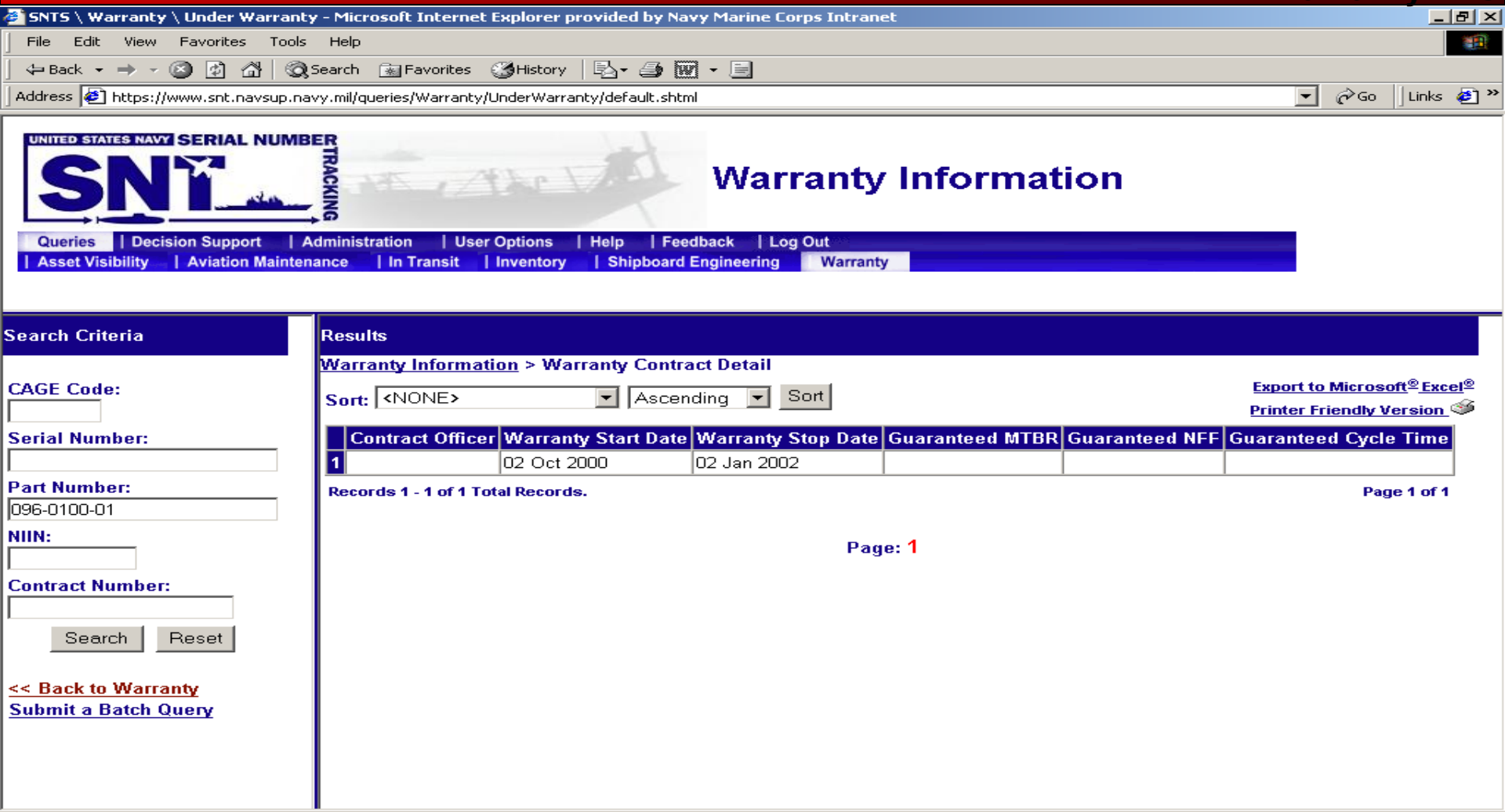
Warranty

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Warranty Info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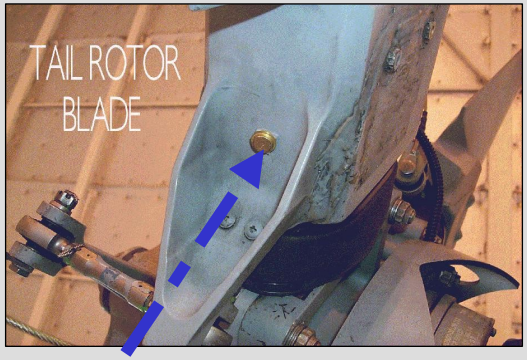
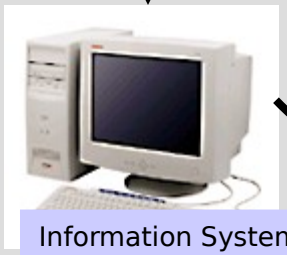
Address https://www.snt.navsup.navy.mil/queries/Warranty/UnderWarranty/default.shtml
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Warranty Information
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty
Search Criteria
CAGE Code:
Serial Number:
Part Number:
096-0100-01
NIIN:
Contract Number:
Search Reset
<< Back to Warranty
Submit a Batch Query
Results
Warranty Information > Warranty Contract Detail
Sort: <NONE> Ascending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Contract Officer | Warranty Start Date | Warranty Stop Date | Guaranteed MTBR | Guaranteed NFF | Guaranteed Cycle Time
1 | | 02 Oct 2000 | 02 Jan 2002 | | | |
Records 1 - 1 of 1 Total Records.
Page 1 of 1
Page: 1
Done
Internet
Start
FLSIC FEB 2004
SNTS \ Warranty \ Un...
13:38

AIT Maintenance Data Collection(OOMA)

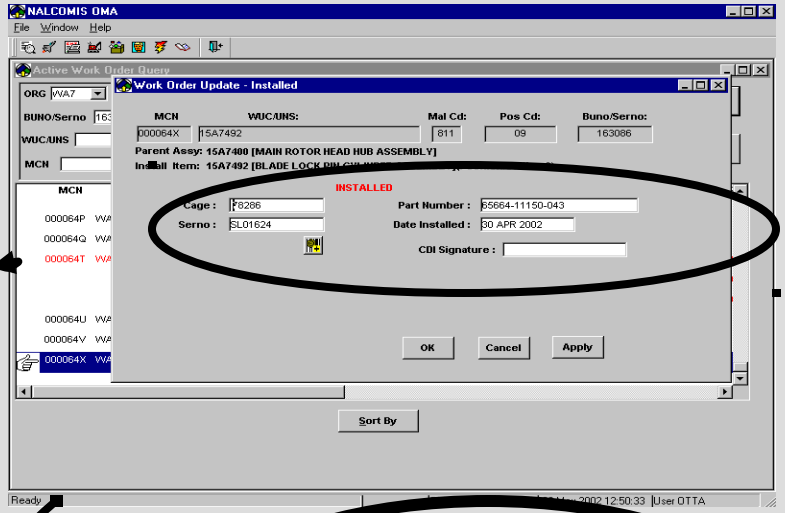
What's Planned



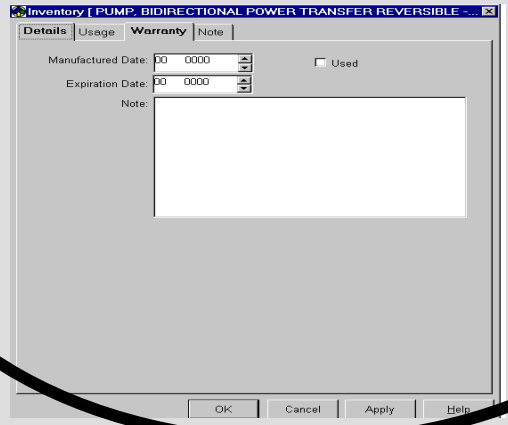
Button Readers



Information System OOMA



Future Capability within OOMA



SNT Follows DoD Policy

DoD Policy/Directives:

Mar 98 - Super Reg – Unique Item Identification (UII)
Sep 02 - SIM Initiative – CAGE, P/N, S/N
Jul 03 - USD – A,T & L Letter – Marking UID of Tangible Items Dated 7/29/03
Oct 03 - USD – A,T & L Letter – RFID Dated - 10/02/03
Nov 03 - DoD Guide to UID Items – EIN, P/N, S/N
Nov 03 - Update of Policy UID Transactions Dated - 11/26/03
Dec 03 - Migration to DLMS Dated - 12/22/03
Dec 03 - Revision to UID Policy Dated – 12/22/03

Common Link:

ANSI MH10 Data Syntax and Semantics 17V-EIN, S-S/N, 1P-P/N

[)>$^{R}_{S}$06$^{G}_{S}$17V35421$^{G}_{S}$S10936$^{G}_{S}$1P420Y2435^{E}o$_{T}$

Maintenance

MIL-STD 129M
PDF417 2D ANSI MH 10

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

Supply / Transportation

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Future Part Marking Requirement- Warranty

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT
UID

Navy Discretion

DoD Mandate

TODAY'S DoD UID REQUIREMENT

ANSI MH10 Data Syntax and Semantics 17V-EIN, S-S/N, 1P-P/N

[)>^{R}.06^{G}.17V35421^{G}.S10936^{G}.1P420Y2435^{E}o.

DoD UID REQUIREMENT WITH WARRANTY

ANSI MH10 Data Syntax and Semantics – 6D- Warranty

[)>$^{R}_{S}$06$^{G}_{S}$17V35421$^{G}_{S}$S10936$^{G}_{S}$1P420Y2435$^{G}_{S}$
6D20040415090$^{G}_{S}$6D20060414091^{E}o$_{T}$

Warranty Start Date
Date = 4/15/2004
Start = 090

Warranty Stop Date
Date = 4/14/2006
Start = 091